

# Kentucky High School Graduation Requirements *for Math and Science by District*

August, 2005  
Gene Wilhoit, Commissioner  
Kentucky Department of Education





**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Adair County	4	Algebra, Geometry, Electives	One class per year	3	Freshman Survey	27	Yes	College Preparatory Diploma 30 Credits: 4 Math (Algebra I, Geometry, and Algebra II); 3 Science (Freshman Survey, Biology or Applied Science, Chemistry I or Physics I)	Letter of Assurance and School Web Site
Allen County	3	Algebra I, Geometry, Elective		3	Biology, ICP, one Elective	27	Yes	Pre College: 3 Math, 3 Science (Biology, ICP, Chemistry or Physics)	Letter of Assurance and School Web Site
Anderson County	4	Algebra I, Geometry, two Math Electives	9th grade: Algebra I, Biology I, 10th grade: Data/Measurements and Geometry, Physical Science, 11th grade: Algebra II, Earth Science	3	Integrated Science or Biology I, Chemistry I or Environmental Science, one Science Elective	26	Yes	Advanced College Preparatory Certificate: 5 Math (Algebra I, Geometry, Data/Measurements, Algebra II, Pre-Calculus or Introduction to College Math); 4 Science (Biology I, Physical Science or Chemistry I, Earth Science, Physics or Chemistry II or Anatomy or AP Biology)	Letter of Assurance and School Web Site
Ashland Independent	3	Algebra I, Geometry, one Elective		3	Life Science, Physical Science, Earth/Space Science	24	Yes		Letter of Assurance and School Web Site
Augusta Independent	3	Algebra I, Geometry, one Elective		3	Integrated Science I, II, III	22	No		Letter of Assurance
Ballard County	3	Algebra I, Algebra II, Geometry, Calculus, Business and Industrial Math		3	ICP, Earth/Space Science, Biology, AP Biology, Chemistry, Advanced Chemistry, Advanced-Biology, Animal Science	22	Yes		Letter of Assurance
Barbourville Independent	Minimum High School graduation requirements					22	Yes		Letter of Assurance
Bardstown Independent	3	Algebra I, Geometry, one Elective		3	Integrated Science, Biology, Science Elective	22	No	College Preparatory - 23 Credits: 4 Math (Algebra I, II, Geometry, Math Elective); 3 Science (Integrated Science, Biology, Chemistry or Physics); Advanced - 24 Credits: 4 Math (Algebra I, II, Geometry, Pre-Calculus, AP Calculus, Advanced Topics); 4 Science (Integrated Science, Biology, Chemistry or Physics and 2 AP courses)	Letter of Assurance
Barren County	3	Algebra I, Geometry, one Elective		3	Integrated Science, Biology I, Elective	26	No		Letter of Assurance

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District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Bath County	3	Basic Algebra or Algebra I, Geometry or Practical Geometry and one Elective		3	Integrated Science, Biology, Introduction to Chemistry or Integrated Science II	26	No		Letter of Assurance
Beechwood Independent		Minimum High School graduation requirements				22	Yes pre-college curriculum + 4 AP		Letter of Assurance and School Web Site
Bell County	3	Algebra I, Geometry, one Elective		3	Chemistry I, Physical Science, Biology, Earth/Space Science or Physics	22	Yes same + 4 AP Courses	Pre-College 22 Credits: 3 Math-same, 3 Science-same	Letter of Assurance
Bellevue Independent	3	Algebra I, Geometry, Algebra II or Integrated Math I, II or III		3	Physics, Science, Biology, Advanced Biology, Chemistry I, Chemistry II, AP Physics	28	Yes	3 Math (Algebra I, Algebra II and or Geometry and Pre-Calculus); 3 Science (Biology, Chemistry I or Physics or Chemistry II or Physical Science); at least 1 AP Science or AP Math.	Letter of Assurance
Berea Independent	4	Algebra I, Geometry, Electives		3	ICP, Biology I, Electives	22	No		Letter of Assurance
Boone County	3	Algebra I, Geometry, one Elective		3	Life Science, Physical Science, Earth/Space Science	22	No		Letter of Assurance
Bourbon County	3	Algebra I, Geometry, Algebra II or Integrated Math		3	Integrated Science, Life Science or Advanced Biology, one Elective	25	Yes	Pre-College- minimum of 4 AP courses and 3 AP exams: 3 Math and 3 Science including AP Calculus or AP Biology	Letter of Assurance and School Web Site
Bowling Green Independent	3	Algebra I, Geometry, Math Elective		3	Integrated Science I, II, III	22	No		Letter of Assurance
Boyd County	3	Algebra I, Geometry		3	Life, Physics, and Earth/Space Science	25	Yes		Letter of Assurance
Boyle County	4	Algebra I and II, Geometry or Integrated Math I, II, III and one Elective		3	Biology, Integrated Science, and one Elective	25	Yes		Letter of Assurance
Bracken County	3	Algebra I, Geometry, Math Elective- pre-Algebra or Algebra II		3	Earth/Space Science, Biology or Advanced Biology, Introduction to Chemistry/ Physics or Chemistry	22	Yes		Letter of Assurance

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Breathitt County	4	Algebra I, Geometry Special Topics in Math, one Elective: Business Math, Accounting, Medical Math, Algebra II	One Math per year	4	ICP/Biology, Chemistry I, Special Topics in Science, one Elective: Principles of Technology, Advanced Biology, Animal Science, Chemistry I, Physics, Anatomy/Physiology	32	Yes Pre-college curriculum + 4 AP + 3 AP Exams	Pre-College Diploma: 4 Math (Algebra I, Geometry, Algebra II, one Elective: Advanced Math, Pre-Calculus, Calculus, AP Calculus); 4 Science (Biology, Chemistry, Special Topics in Science, one Elective: Chemistry II, Physics, Anatomy/Physiology, Principles of Technology (AP Biology); Advanced Biology)	Letter of Assurance and School Web Site
Breckinridge County	3	Algebra I, Geometry and Elective/Integrated Math I, II, III		3	Integrated Science, Biology I, Earth Science/ Physical Science, Biology I, Chemistry I	25	Yes Regular graduation requirements + 4 AP, one Science or Math	Honors Diploma: 4 Math (Algebra I, Geometry, Algebra II, Advanced Math); 3 Science (Physical or Advanced Science, Biology, Chemistry) Vocational Diploma: 3 Math, 3 Science	Letter of Assurance and School Web Site
Bullitt County	4	Integrated Math I, Algebra I, Geometry, Algebra II or Integrated Math II		3	Integrated Science, Biology, Chemistry or Introduction to Chemistry/Physics	28	Yes	Pre-College - Standard Diploma including Algebra II and either Chemistry or Physics; Extended Diploma - 32 Credits: Pre-college and Political Science; Gifted Diploma, extended diploma-completing 8 AP credits	Letter of Assurance and School Web Site
Burgin Independent	3.5	Algebra I, Algebra II, Geometry, Math Elective 1/2 credit	Algebra I (8,9th grade) Algebra II (9,10th grade) Geology (9-11th grade) Math Elective (11,12th grade)	3	Earth/Space Science (9th grade), Biology (9th grade), ICP, Anatomy and Physiology, Chemistry I, Chemistry II, or Physics (10-12 grade)	28	No		Letter of Assurance
Butler County	4	Pre Algebra, Algebra, Applied Math I, Geometry or Algebra II or Applied Math II		3	Introduction to Chemistry/ Physics, Biology, Chemistry or Physics or Integrated Science, Biology I and a 3rd Science credit	25	No	Comprehensive Diploma - 27 Credits: 4 Math (Algebra I, Geometry, Algebra II, and Pre-Calculus or Advanced Topics in Math); 3 Science (Introduction to Chemistry and Physics, Biology I, Chemistry I or Physics I)	Letter of Assurance
Caldwell County	3			3		25	Yes	Honors Diploma - 29 Credits: 4 Math, 4 Science, Scholastic Diploma 27 Credits - 4 Math, 4 Science	Phone Call

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Calloway County	3	Algebra I or Integrated Math I or Applied Math I, Geometry or Honors Geometry or Integrated Math II or Applied Math II, Algebra II or Accelerated Algebra II or Integrated Math III or Technical Applied Math or Applied Math III		3	Integrated Science I or Chemistry and Earth, or Applied Introduction to Chemistry and Earth, Integrated Science II: Physics and Space or Applied Introduction to Physics and Space, Biology or Honors Biology or Applied Biology	28	Yes	Standard Diploma 28 credits Enrichment Diploma 20 credits Comprehensive Diploma 31 credits	Letter of Assurance and School Web Site
Campbell County	3	Algebra, Geometry, Math Elective		3	Biology, ICP	22	Yes		Letter of Assurance
Campbells-ville Independent	3	Algebra I or Integrated Math I, Algebra II or Integrated Math II, III or Geometry		3	Integrated Science, Biology, Chemistry I	28	Yes	Distinguished Diploma - 31 credits: 5 Math (Algebra I, Algebra II, Geometry, Advanced Math Topics, College Algebra); 5 Science (Biology, Chemistry I, Chemistry II, Physics or Anatomy, Integrated Science)	Letter of Assurance and School Web Site
Carlisle County	3	Algebra I, Geometry Algebra II		3	Biology I, Earth/Space Science and Physics, Chemistry	28	No		Letter of Assurance and School Web Site
Carroll County	4	Integrated Math I, II, III or Applied Integrated Math I, II, III	9th grade- Biology or Honors Biology and Integrated Math (I or Applied Integrated Math I, 10th grade- Integrated Science and Integrated Math II or Applied Integrated Math II, 11th grade- Science Elective, and Integrated Math III or Applied Integrated Math III, 12th grade- Math Elective, Science Elective	4	Biology I and Integrated Math	28	Yes		Letter of Assurance
Carter County	4	Algebra I, Geometry, Algebra II, Integrated Math, Math for Business, Pre-Calculus, AP Calculus I, Discrete Math, Trigonometry, Advanced Math Topics, Practical Statistics		4	Introduction to Chemistry/ Physics, Biology, Earth Science, Scientific Methodology, Physics, Principles of Technology I, II, Anatomy and Physiology, Zoology, Microbiology, Medical Terminology, Chemistry	22	Yes		Letter of Assurance

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Casey County	3	Pre-Algebra, Applied Algebra, Applied Geometry		4	Biology, Integrated Science, Integrated Science Lab Skills, Elective	29	Yes	Pre-college: 4 Math (Algebra I, Data and Measurements, Geometry, Algebra II); 4 Science (Biology, Introduction to Chemistry and Physics Lab, Introduction to Chemistry and Physics Lab Skills, Physics or Chemistry)	Letter of Assurance
Caverna Independent	3	Algebra I, Geometry, Pre-Algebra, Consumer Math, Algebra II, Applied Math I-III		3	Biology, Chemistry, Integrated Science, Applied Science I - III	27	Yes		Letter of Assurance
Christian County	3	Algebra I, Geometry, Elective		3	Earth Science, Biology, Physical Science	27	Yes		Web Site
Clark County	4	Algebra I, II, Geometry, Math Elective		3	Biology, Chemistry and Physical Science	28	Yes	4 AP courses, and 3 AP exams	Letter of Assurance
Clay County	3	Algebra I, Advanced Algebra I, Geometry, Advanced Geometry, Algebra II, Advanced Algebra II, Pre-Calculus, Applied Math I, II, Advanced Topics		3	Integrated Science, Biology, Advanced Biology, Chemistry I, II, III, Earth/Space Science, Science Survey, Physics	22	No		Letter of Assurance
Clinton County	4	Algebra I, Geometry, two Electives		3	Biology I, Integrated Science or Introduction to Chemistry/Physics	25	No	Comprehensive Diploma: 27 credits: 4 Science (Integrated Science or Introduction to Chemistry/Physics, Physics or Chemistry); 4 Math (same)	Letter of Assurance and School Web Site
Cloverport Independent						30	Yes		Letter of Assurance
Corbin Independent	5	Pre Algebra, Algebra I, Geometry, Algebra II, Applied Math or Advanced topics or Pre-Calculus or Calculus		3	Integrated Science, Biology, Chemistry or Environmental Science or Botany	27	No		Letter of Assurance
Covington Independent	4	Algebra I and Informal Geometry or Geometry plus any combo of two additional Math		3	Survey of Science, Biology, and Chemistry, Physics, Earth Science	27	Yes		Letter of Assurance
Crittenden County	4	Algebra I, Geometry		3	ICP, Biology I, Electives	26	No	Gold Seal Academic Diploma: 28 credits: 4 Math (Algebra I, Geometry, Algebra II, Pre-Calculus, Technical Math and Advanced Topics); 3 Science (ICP, Biology, Elective)	Letter of Assurance and School Web Site

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Cumberland County	3	Algebra I, Geometry, Algebra II or Pre-Calculus		3	Integrated Science, Biology, Environmental Science, or Chemistry or Physics, Anatomy and Physiology	28	No	Comprehensive Diploma	Letter of Assurance and School Web Site
Danville Independent	4	Algebra I, Data and Measurements, Geometry, Math Elective or Applied Algebra, Integrated Algebra, Applied Geometry, Math Elective		3	Earth/Space Science, Biology I, Chemistry I or Basic Chemistry, Science Elective	29	Yes		Letter of Assurance
Daviess County	3	Algebra I, Geometry, Special Topics or Algebra II		3	Integrated Science, Biology, Earth/Space Science	26	Yes	Pre-College Diploma 26 Credits: 4 Math (Algebra I, Geometry, Algebra II, Algebra III or above); 4 Science (Integrated Science, Biology, Earth/Space Science, Chemistry or Physics) Honors Diploma - 26 Credits: 5 Math (Algebra I, Geometry, Accelerated Algebra II or Algebra II/Algebra III, Pre-Calculus, AP Statistics or Calculus); 5 Science (Integrated Science or Accelerated Integrated Science, Biology, Earth/Space Science or Science Elective, Chemistry or Physics, AP Science)	Letter of Assurance and School Web Site
Dawson Springs Independent	3	Algebra I, Geometry and one Elective		3		25	Yes	Commonwealth Diploma requires 25 credits: Algebra I, Geometry, Algebra II, Biology, Chemistry or Physics, AP Biology; The Basic Pre-College Diploma requires 22 credits: 3 Math (Algebra I, Geometry, Algebra II); 3 Science (Biology I, Chemistry or Physics and one Elective); Comprehensive Diploma requires 22 credits - 4 Math (Algebra I, Geometry, Algebra II, Pre-Calculus); 4 Science (Integrated Chemistry/Physics, Biology I, one Elective above and Chemistry)	Letter of Assurance



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Dayton Independent	3	Algebra I, II Geometry or Integrated Math I, II, III		3	Integrated Chemistry/ Physics, Biology, one Elective or Biology, Chemistry, and one Elective	22	No	Applied Academic Diploma: 22 credits- 3 Math, 3 Science Academic Diploma: 22 credits- 3 Math, 3 Science Honors Academic Diploma: 22 credits- 4 Math, 4 Science Commonwealth Diploma is Honors diploma with AP courses instead of regular courses	Letter of Assurance
Edmonson County	4	Algebra I, Geometry, two Electives		3	General Science I, II and one Elective	22	No		Letter of Assurance
Elizabeth-town Independent	3			3		22	Yes		Letter of Assurance
Elliott County	3			3		24	Yes	College Preparatory Diploma: 3 Math, 3 Science - Vocational Diploma: 3 Math, 3 Science	Letter of Assurance
Eminence Independent	5			3		30	Yes		Letter of Assurance and Phone Call
Erlanger-Elsmere Independent	3	Algebra I, Geometry, Algebra II, or Integrated Math I, II, III		3	Biology, Physical Science, Earth or Integrated Science	22	Yes		Letter of Assurance
Estill County	4	Integrated Math I, II, III or Algebra I, II, and Geometry		3	Integrated Science and two Science Electives or ICP and two Science Electives	28	Yes		Letter of Assurance
Fairview Independent	3	Algebra I, Geometry and Elective		3	Integrated Science I, II, III	22	No		Letter of Assurance

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Fayette County	3	Option One: Algebra Part 1,2 and Geometry; Option Two: Algebra I, II, Geometry; Option Three: Geometry, Advanced Geometry, Algebra II/Advanced Algebra II, Pre-Calculus or Advanced Topics; Option Four: Algebra II, Advanced Algebra II, Pre-Calculus or Topics in Math, Calculus/AP, Calculus I or AP Statistics; Option Five: Pre-Calculus or Topics in Math, Calculus I or AP Calculus I, Advanced Pre-Calculus, AP Calculus II or AP Statistics, Probability and Statistics		3	Option One: Physical Science, Biology, Chemistry, Physics, Physical Science II; Option Two: Biology, Chemistry, Physics; Option Three: Gifted Biology, Gifted Biology/Chemistry, Integrated Biology/Chemistry I, Gifted Integrated Biology/Chemistry I, II, Gifted Physics, Physics or AP Physics, Spanish Immersion Biology, Physics, or Chemistry	22	Yes		Letter of Assurance
Fleming County	4	Employment Preparatory Diploma requires Algebra I, Geometry and two Math Electives. Technical Preparatory Diploma exchanges one of the above Electives for Applied Math. The College Preparatory Diploma requires Accelerated or Algebra I, II, Geometry and one Math Elective		4	Employment Preparatory Diploma requires Integrated Science, Biology, Earth/Space Science. Technical Preparatory Diploma requires Biology, Earth/Space Science and Principles of Technology. The College Preparatory Diploma requires Biology, Environmental Biology, Chemistry or Physics and a Science Elective	29	Yes		Letter of Assurance and School Web Site
Floyd County	3	Algebra I, Geometry and one Math Elective		3	Earth/Space Science, Biology, Physical Science	22	Yes		Letter of Assurance
Fort Thomas Independent	3	Algebra I, Geometry, and one Math Elective, or Pre-Algebra, Applied Algebra, and Applied Geometry or Geometry, Algebra II, and Pre-Calculus or Algebra I, Geometry and Technical Applied Math or Medical Math		3	Introduction to Physics, Physics I, Biology I, Chemistry I, Advanced Chemistry in the Community or Integrated Science I, II, III, or Introduction to Chemistry and Physics, Biology I, Advanced Biology I and one Elective or Integrated Science I, II and one Elective	22	Yes		Letter of Assurance
Frankfort Independent	4			4		26	Yes		Letter of Assurance and School Web Site

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Franklin County	3			3		27	No	Enrichment Diploma requires 3 Math and 3 Science for a total of 26 credits while the Academic Diploma requires 4 Math, 3 Science for a total of 28 credits	Letter of Assurance and School Web Site
Fulton County	4	Algebra I, II, Geometry, and one Advanced Math Elective		4	Earth/Space Science, Biology, Chemistry and one Elective	27	Yes		Letter of Assurance
Fulton Independent	3	Algebra I, Geometry and one Math Elective		3	Earth/Space Science, Biology, Chemistry	22	No		Letter of Assurance and School Web Site
Gallatin County	4	Algebra I, Geometry, Pre-Algebra, Algebra II, Algebra III, Essential Math		4	Environmental Biology, Integrated Anatomy, Chemistry I	29	No		Letter of Assurance and School Web Site
Garrard County	3	Algebra I, Geometry or Basic Geometry, one Math Elective		3	Physics Science, Life Science, Earth/Space Science	22	Yes	Basic Preparatory College Diploma 22 credits: 3 Math (Algebra I, Geometry or Basic Geometry, and Algebra II); 2 Science (Biology, Earth/Space Science, Chemistry or Physics) Advanced College Preparatory Diploma 22 credits: 4 Math (Algebra I, Geometry, Algebra II, Pre-Calculus or Probability and Statistics or AP Calculus); 4 Science (Biology, Earth/Space Science, Chemistry or Physics and one Advanced Science)	Letter of Assurance
Glasgow Independent	3	Algebra I, Geometry, Elective		3	Integrated Science I, II, III	22	No		Letter of Assurance and School Web Site
Grant County	4	Algebra IA and IB, Geometry, one Elective		3	Earth and Space Science, Biology, Physical Science or Chemistry, or Physics	26	Yes		Letter of Assurance
Graves County	3	Algebra I, Geometry, one Elective		3	Biology, Chemistry, one Elective	26	No		Letter of Assurance and School Web Site
Grayson County	3	Basic Algebra and or Algebra I, Geometry or ICP Geometry, and two Electives from Algebra II, Advanced Concepts, Trigonometry, Calculus, Technical Applied Math or Consumer Math	One per year	3	Biology or Integrated Biology, Chemistry or Integrated Chemistry, Applied Science or Integrated Applied Science	27	Yes		Letter of Assurance and School Web Site

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Green County	3			3	Biology I, Applied Chemistry, or Applied Physics, or Integrated Chemistry, or Physics, Earth/Space Science	24	Yes	Standard Diploma, Comprehensive Diploma, Technical Diploma all require 3 Math/3 Science and 24 total credits	Letter of Assurance and School Web Site
Greenup County	3	Algebra I, Geometry, one Elective		3	Life Science, Physics Science, Earth Science	28	Yes		Letter of Assurance
Hancock County	4			3		28	Yes	Academic, Technical and Occupational Preparatory Diploma	Letter of Assurance, School Web Site and Phone Call
Hardin County	4	Algebra I, Geometry, and Electives		3	Life Science, Physical Science, Earth and Space Science	27	Yes		Letter of Assurance and School Web Site
Harlan County	4	Integrated Math I, II, III, or Calculus		3	Life Science, Physical Science, Earth and Space Science	22	Yes		Letter of Assurance
Harlan Independent	4			3		26	Yes	Advanced Academic - 28 credits	Letter of Assurance
Harrison County	3	Algebra I, Geometry, one Elective		3	Integrated Science I, II, III	28	Yes		Letter of Assurance and School Web Site
Harrodsburg Independent	4	Pre-Algebra, Algebra I, Geometry, Algebra II, Pre-Calculus, Calculus		3	Integrated Science, Applied Biology, Biology, Applied Physics, Advanced Biology, AP Environmental Science, Chemistry	24	No	Preparatory College Diploma: 3 Math (Algebra I, Geometry, Algebra II); 3 Science (Biology, Chemistry and one Elective) Technical Preparatory Diploma: 3 Math (same); 3 Science (Integrated Science, Applied Biology, Applied Physics) Comprehensive Diploma: 24 Credits - 4 Math (Pre-Algebra, Algebra I, Geometry, Algebra II, Pre-Calculus); 4 Science (Biology, Chemistry, Physics, Advanced Biology or Applied Physics or AP Environmental Science)	Letter of Assurance and School Web Site
Hart County	3	Algebra I, Geometry, one Elective or Math I, Algebra I, Geometry		3	Biology, Chemistry, Physics or ICP Biology, Special Topics in Science or Science I, II, III	24	Yes		Letter of Assurance and School Web Site

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Hazard Independent	3	Integrated Math I, I, III		3	Integrated Science, Biology I, Introduction to Chemistry and Physics	22	Yes	College Preparatory Diploma - 3 Math (Algebra I, II, Geometry); 4 Science (Integrated Science, Biology I, ICP, Chemistry or Biology I, Chemistry or AP Chemistry, and 2 Electives)	Letter of Assurance and School Web Site
Henderson County	3	Algebra I or Algebra IA or Algebra IB, Geometry, Algebra II or Special topics or any Math above Algebra II		3	Integrated Science, Biology, Earth/Space Science	22	Yes	Technical/Vocational Diploma requires 28 Credits - 3 Math (same); 3 or 4 Science (additional Physics) Preparatory College Diploma 28 Credits - 3 Math (same); 4 Science	Letter of Assurance and School Web Site
Henry County	3			3		27	Yes		Phone Call
Hickman County	3			3		23	No		Letter of Assurance
Hopkins County	3	Algebra I, Geometry, Integrated Technical Geometry I, Integrated Technical Geometry II, Math Elective		3	Physical Science, Earth/Space Science, Life Science	28	Yes	Standard Curriculum requires 3 Math and 3 Science for a total of 28 credits, Pre-College Curriculum- 3 Math, 3 Science for a total of 28 credits and the Honors Curriculum with 4 Math and 4 Science for a total of 28 credits	Letter of Assurance and School Web Site
Jackson County	3	Algebra I, Geometry, Algebra II		3	ICP, Biology I, Chemistry or Physics	26	Yes		Letter of Assurance
Jackson Independent									
Jefferson County	3	Algebra I, Geometry, Algebra II		3	Biology, Chemistry, Physics	22	Yes		Letter of Assurance
Jenkins Independent	3	Algebra I, Geometry, one Elective		3	Integrated Science, Biology, one Elective	22	Yes		Letter of Assurance and School Web Site
Jessamine County	4	Algebra I, Geometry, two Electives		3	Pathway I: Biology, Earth/Space Science, Introduction to Physics and Chemistry, Pathway II (for college bound): Biology, Earth/Space Science, Chemistry, Physics	25	Yes		Letter of Assurance and School Web Site

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Johnson County	4	Algebra I, Geometry or Applied Geometry, Math Elective		3	Earth/Space Science, Biology, Chemistry or Applied Chemistry	24	No		Letter of Assurance and School Web Site
Kenton County	4	Algebra I, Geometry, Electives		3	Life Science, Physical Science, Earth/Space Science	28	Yes		Letter of Assurance
Knott County	3	Algebra I, Geometry, Data and Analysis		3	Integrated Science, Biology I or Anatomy	22	No		Letter of Assurance
Knox County	3	Algebra I, Geometry, Data and Measurement		3	Integrated Science, Biology, Chemistry or Environmental Science	22	Yes		Letter of Assurance
Ky School for the Blind	3			3		22	No		Phone Call
Ky School for the Deaf	3	Algebra I, Geometry and Math Elective		3	Life Science (Biology) Physical Science (Chemistry), Earth/Space Science	25	No		Letter of Assurance
LaRue County	3	Algebra I, Geometry or Integrated Math I and II plus another Math		3	ICP, Earth/Space Science, Biology	25	Yes		Letter of Assurance and School Web Site
Laurel County	3	Algebra I, Geometry, Math Elective		3	Integrated Science I, II, III	28	Yes		Letter of Assurance
Lawrence County	3	Algebra I, II, Geometry or Integrated Math I, II, III		3	Integrated Chemistry/Physics, Biology, Earth/Space Science	27	No	Academic Preparatory College Diploma: 27 Credits - 3 Math (Algebra I, II, Geometry or Pre-Calculus); 3 Science (Integrated Chemistry/Physics, Biology, Chemistry or Physics)	Letter of Assurance and School Web Site
Lee County	4	Algebra I, Geometry, Math Electives		4	Introduction to Chemistry/ Physics, Biology, Chemistry, Physics	29	Yes		Letter of Assurance and School Web Site
Leslie County	4	Algebra I, Geometry, two Electives		3	ICP, Biology I, Earth Science	22	No		Letter of Assurance
Letcher County	3	Algebra I, II, Geometry, Pre-Calculus		3	Chemistry, Physics, Physical Science, Biology, Anatomy, AP Biology, Integrated Science	22	Yes		Letter of Assurance

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District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Lewis County	3	Algebra I, Accelerated Algebra I, Applied Math I-IV, Geometry, Accelerated Geometry, Algebra II, Accelerated Algebra II, Practical Statistics/Technology, Applied Math, Discrete Math, Pre-Calculus, Calculus		3	Integrated Science, Biology I, II, Chemistry I, Principles of Technology I, II, Physics, Engineering Design, Earth Science, Environmental Science, Applied Science I-III, Astronomy	26	Yes		Letter of Assurance and School Web Site
Lincoln County	4	Algebra I, Data and Measurements, Geometry, Math Elective or functional Integrated Math I, II, III, IV		3	Earth/Space Science, Biology, Science Elective	29	Yes		Letter of Assurance
Livingston County	4	Algebra I, II, Geometry, and one Elective		3	Comparative Science I, II and one Elective	26	No	Comprehensive Diploma- 28 Credits: 4 Math (Algebra II, Geometry, Pre-Calculus, and one Elective); 3 Science (same)	Letter of Assurance and School Web Site
Logan County	4	Algebra I, Geometry, Electives		3	Biology, Integrated Science, ICP	26	Yes	Honors- 31 Credits; 5 Math, 4 Science	Letter of Assurance and School Web Site
Ludlow Independent	3	Integrated Math, Geometry, Elective		3	Earth Science, Biology, Physical Science	23	Yes		Letter of Assurance and School Web Site
Lyon County	3	Algebra I, Geometry, one Elective		3	ICP, Biology, Elective	29	Yes		Letter of Assurance and School Web Site
Madison County	4	Basic Algebra, Algebra I, Geometry, Math Elective		3	Integrated Physical/Earth/Space Science, Integrated Chemistry/Earth/Space Science, Biology	28	Yes	Preparatory College Curriculum plus four AP courses	Letter of Assurance and School Web Site
Magoffin County	3	Algebra I, Geometry, Math Elective		3	Integrated Science, Biology, Chemistry	22	Yes		Letter of Assurance and School Web Site
Marion County	4	Algebra I, Geometry Electives		4	Integrated Science, Biology, Electives	28	Yes		Letter of Assurance and School Web Site
Marshall County	3	Applications Algebra I, Applications Geometry, Data and Measurements or Functional		3	Physical Science, Biology, Community Chemistry or Functional	27	No	Enrichment Diploma: 28 Credits- 3 Math (Algebra I, Geometry, Algebra II); 3 Science (Physical Science, Biology, General Chemistry or Applied Physics) Comprehensive Diploma: 29 Credits - 3 Math (Accelerated Algebra I, II, Geometry) 3 Science (Physical Science, Biology, Chemistry I or AP Physics) Standard Diploma requires 27 credits	Letter of Assurance and School Web Site

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Martin County	3	Algebra I, Geometry, Math Elective		3	Integrated Science I, II, III	28	Yes		Letter of Assurance
Mason County	3	Algebra I, Geometry, Integrated Math I, II, or Elective		3	Integrated Science/Earth/Space Science, Biology/Earth/Space Science, Integrated Chemistry or Chemistry	22	Yes		Letter of Assurance
Mayfield Independent	3	Algebra I, Geometry, Elective		3	Life Science, Physical Science, and Earth/Space Science	22	Yes		Letter of Assurance
McCracken County	3	Algebra I, Geometry, Elective		3	ICP, Earth/Space Science, Biology I	22	Yes		Letter of Assurance
McCreary County	3	Algebra I, Data and Measurements, Geometry		3	Integrated Science I, Biology I, Chemistry I	28	Yes		Letter of Assurance and School Web Site
McLean County	3	Algebra I, Geometry, Basic Geometry, Algebra II, Preparatory Algebra		3	Biology, ICP, Earth/Space Science, Chemistry, Physics	28	Yes		Letter of Assurance and School Web Site
Meade County	4	Accelerated Algebra I, II, Accelerated Geometry or Integrated Math I, II, III, Math Electives		3	Environmental Science, Introduction to Chemistry and Physics, Biology, Chemistry, AP Chemistry, Physics, Earth/Space Science	26	Yes		Letter of Assurance and School Web Site
Menifee County	3	Algebra I, Geometry, Elective		3	Earth/Space Science, Biology I, Chemistry or Physics	26	Yes		Letter of Assurance
Mercer County	4	Algebra IA and B, Geometry, one Elective		3	1 credit in Biology, .5 in Chemistry, .5 in Physics, .5 in Earth/Space Science and .5 additional credit				
Metcalfe County	4	Algebra I, Algebra II, Geometry	Algebra I, - grade 9 or 10, Math Elective- grade 9 or 10, Geometry - grade 10, 11, or 12, Biology - grade 10, ICP- grade 9, 10, or 11, Elective - grade 10, 11, or 12	4	Biology, ICP, one Elective	28	Yes	32 credits required	Letter of Assurance and School Web Site
Middlesboro Independent	3	Algebra I, Geometry, and one Elective		3	Integrated Science, Introduction to Chemistry and Physics, Anatomy and Physiology I, II, Chemistry, Physics, AP Chemistry	28	Yes		Letter of Assurance
Monroe County	4	Any Math	One Math and one Science class in 11th grade	4	Any Science	26	Yes	Honors Diploma: 4 Math (Pre-Algebra I, II, III); 4 Science (Integrated Science, Biology I, Chemistry I, and one Elective)	Letter of Assurance and School Web Site



**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Montgomery County	4	Introduction to Algebra, Algebra I, Geometry and Algebra II or Applied Math		4	Life Science, Physical Science and Earth/Space Science	28	No	Comprehensive Program- 28 credits: 4 Math (Accelerated Algebra I, Accelerated Geometry, Accelerated Algebra II or Honors Algebra II and one of the following Electives: Pre-Calculus, Finite/ Probability and Statistics, Algebra III, Advanced Topics in Math, AP Calculus); 4 Science (Accelerated Integrated Science, Accelerated Biology, Accelerated Chemistry or Physics, one Elective)	Letter of Assurance and School Web Site
Monticello Independent	3	Algebra I, Geometry, and one Elective		3	Life Science, Physical Science, and Earth/Space Science	22	Yes		Letter of Assurance
Morgan County	4			4		28	Yes		Letter of Assurance
Muhlenberg County	3	Algebra I, Geometry, Algebra II		3	Applied Science, Biology, Introduction to Chemistry and Physics	26	Yes	Muhlenberg So. H.S. - 4 Math, 4 Science - 30 credits are required, Muhlenberg N. requires 26 credits	Letter of Assurance and School Web Site
Murray Independent		Minimum High School graduation requirements				22	Yes	Comprehensive Diploma requires 23 credits as does the Advanced Diploma	Letter of Assurance and School Web Site
Nelson County	4	Algebra I or Applied Algebra I, Basic Geometry, Applied Geometry or Formal Geometry, Algebra II or Applications of Algebra II		3	Introduction to Conceptual Physics or Introduction to Physics, Biology, Chemistry	32	Yes		Letter of Assurance
Newport Independent	3	Algebra I (A and B), Algebra II, Geometry		3	Integrated Science, Biology, Chemistry, Principles of Technology	28	Yes		Letter of Assurance
Nicholas County	4	Algebra I, II, Geometry, Math Elective		3	Integrated Science I, II, III	29	Yes	College Cluster- 4 Math (same); 4 Science (Physical Science, Biology, Chemistry, or Physics, Science Elective)	Letter of Assurance
Ohio County	4	Algebra, Geometry, two Electives		3	Introduction to Chemistry/ Physics, Biology I, Environmental Science	26	No		Letter of Assurance

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Oldham County		Minimum High School graduation requirements				22	No		School Web Site
Owen County	4			4		28	Yes		School Web Site
Owensboro Independent	3.5			3.5		28	Yes	Comprehensive Diploma- 28 credits: 4 Math (CP, AP or Advanced Levels); 1 Math or Science and 3 Science (Honors, CP or AP)	Letter of Assurance
Owsley County	4	Algebra I, II, Geometry, Pre-Calculus, Instructional Math or Advanced Math or AP Math		4	Biology, Introduction to Chemistry/Physics, Earth/Space Science	25	Yes	Pre-College - 4 Math (Algebra I, Geometry, 2 Electives); 4 Science (same)	Phone
Paducah Independent	3	Algebra I or II, Geometry and one Math Elective for the Academic Diploma and the Technical Preparatory Academic Diploma; Algebra II, Geometry and Trigonometry for the Comprehensive Diploma		3	Biology, Chemistry and one Elective for the Academic Diploma, the Technical Preparatory Academic Diploma, and the Comprehensive Diploma	22	No		Letter of Assurance
Paintsville Independent	3	Algebra I, Geometry, and one Math Elective		3	Integrated Science, Biology, and one Science Elective	22	Yes		Letter of Assurance
Paris Independent	3	Algebra I, II, Geometry, Pre-Calculus, AP Calculus, Applied Math, Integrated Math		3	Chemistry I, Biology I, Introduction to Chemistry and Physics, Advanced Biology, AP Biology, Physics, Anatomy and Physiology	25	Yes		Letter of Assurance
Pendleton County	3	Algebra I, II, and Geometry		3	Life Science, Physical Science, and Earth/Space Science	24	Yes	Pre-College: 3 Math (Algebra I, II, Geometry); 3 Science (Life Science, Physical Science, Earth/Space Science)	Letter of Assurance and School Web Site
Perry County	3	Algebra I, Geometry and one Math Elective		3	Life Science, Physical Science and Earth/Space Science	22	Yes	Four AP Classes	Letter of Assurance and School Web Site
Pike County	4	Algebra I, II, Geometry and one Math Elective		3	Biology I, Chemistry or Physics and one Science Elective	28	Yes		Letter of Assurance
Pikeville Independent	3	Algebra I, Geometry, and one Math Elective		3	Biology, Earth/Space Science and Chemistry or Introduction to Chemistry or Physics	27	Yes		Letter of Assurance
Pineville Independent	3	Algebra I, Geometry, Pre-Algebra or Algebra II		3	Earth/Space Science, Biology, Chemistry	22	Yes		Letter of Assurance

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Powell County	3	Algebra A, B, C, Algebra I, II, Geometry required for Pre-College Technical Preparatory Curriculum. For the Honors Program Curriculum four Math credits are required		3	Biology I or Advanced Biology, Special Topics in Science, Chemistry I or Nutritional Science, or Applied Chemistry required for the Pre-College Technical Preparatory Curriculum. For the Honors Program Curriculum four Science credits are required	28	No		Letter of Assurance and School Web Site
Providence Independent						25	Yes		Letter of Assurance
Pulaski County	4	Algebra I, II, Geometry, Pre-Calculus, Applied Math, Topics in Math, Calculus AP, Calculus BC		4	Integrated Science, Advanced Introduction to Chemistry and Physics, Biology I, II, Chemistry, Physics, Anatomy and Physiology, Environmental Science, AP Biology, Applied Chemistry and AP Chemistry, Forensic Science, Special Topics (Medical Microbiology)	28	Yes		Letter of Assurance
Raceland-Worthington Independent	3			2		22	Yes		Letter of Assurance
Robertson County	3			3		28	Yes		Letter of Assurance and Phone Call
Rockcastle County	4	Integrated Math I, II, III, and Data/Measurement or Algebra I, II, Geometry and Data/Measurement		3	Introduction to Physics/Space Science, Biology I, Introduction to Chemistry/Earth Science	28	Yes		Letter of Assurance
Rowan County	4	Algebra I, Geometry and two Math Electives		3	Science Elective, Life Science, Physical Science, and Earth/Space Science	24	Yes		Letter of Assurance
Russell County	4	Algebra I, Geometry and Math Elective		3	Integrated Science I, II, III	25	No		Letter of Assurance
Russell Independent	3	Algebra I, Geometry and one Math Elective		3	Introduction to Chemistry/Physics, Biology I, Chemistry I, Physics I	24	Yes		Letter of Assurance
Russellville Independent	4	Three Math plus one Elective		3		26	Yes		Letter of Assurance

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Scott County		Minimum High School graduation requirements				22	Yes		School Web Site
Shelby County	4	Algebra I, II, Geometry, Advanced Topics or Essentials of High School Math, Pre-Algebra, Algebra I, II, Geometry		3	Science I, Biology I, Chemistry I	27	Yes		Letter of Assurance
Silver Grove Independent	3	Algebra I, Geometry and one Math Elective		3	ICP, Biology, Integrated Science	26	No		Letter of Assurance
Simpson County	3	Algebra I, Geometry, and one Math Elective		3	Integrated Science I, II, III	26	Yes	Comprehensive Diploma requires 30 credits, Merit Diploma requires 28, while the Standard requires 26	Letter of Assurance and School Web Site
Somerset Independent	3	Algebra I, II, and Geometry are required for the College Preparatory and the Academic Diplomas. For the Standard Diploma Pre-Algebra, Basic Algebra I and Informal Geometry are required		3	Physical/Earth/Space Science, Biology or Accelerated Biology and Chemistry or Physics are required for the College Preparatory Diploma. All of the choices above except Accelerated Biology are required for the Academic Diploma. For the Standard Diploma you must take Physical/Earth/Space Science, Biology and either Chemistry or Physics	25	Yes	4 AP courses and an AP exam must be taken in at least 3 of these 4 courses	Letter of Assurance and School Web Site
Spencer County	4			4		30	Yes		Letter of Assurance and Phone Call

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Taylor County	3	Applied Algebra or Algebra I, Geometry, Basic Geometry or Applied Geometry, Applied Topics, Algebra II, Pre-Calculus required for the Standard Diploma. Algebra I, II, Geometry or Basic Geometry, and Pre-Calculus required for the Comprehensive Diploma	Applied Topics in Math may only be taken if it is 3rd credit. Can not take Introduction to Physical and Earth Science if Integrated Science was taken. If Biology is taken in 9th grade, 1/2 credit of Earth/Space Science is required	3	Integrated Science, Integrated Physical and Earth Science, Biology, Chemistry or Applied Chemistry, Earth/Space Science, Physics or Concept Physics, Advanced Biology, Anatomy and Physiology, Chemistry II required for the Standard Diploma. Integrated Physical and Earth Science, Comparative Biology, Chemistry, Earth/Space Science (1/2 credit), Physics or Conceptual Physics, Advanced Biology, Anatomy and Physiology, Chemistry II are required for the Comprehensive Diploma	22	Yes		Letter of Assurance
Todd County	3	Algebra I, Geometry and one Math Elective		3	Biology I or Honors, Earth/Space Science, Chemistry I, Physics or Principles of Technology I, II required for the Comprehensive Diploma. Biology I, Introduction to Chemistry and Physics, Earth/Space Science required for the Standard Diploma	28	Yes	Four AP Classes	Letter of Assurance and School Web Site
Trigg County	3	Algebra I, II, and Geometry		3	Science Survey, Biology, and one Science Elective	22	Yes		Letter of Assurance and School Web Site
Trimble County	3	Algebra I, Geometry, Math Elective		3	Earth/Space Science, Biology I, Physical Science Elective	22	Yes		Letter of Assurance
Union County	4	Algebra I, II, Pre-Algebra, Geometry		3	Integrated Science, Biology, Physics, (1/2 credit) Chemistry (1/2 credit)	28	Yes		Letter of Assurance
Walton-Verona Independent	4	Algebra I, Geometry, and two Electives for the Applied Academic Diploma and Algebra I, II, Geometry and one Math Elective for the College Preparatory Diploma, Algebra I, II, Geometry, and Pre -Calculus for the Academic Diploma	One Math class per year	3	Integrated Science, and two Science Electives for the Applied Academic Diploma and Integrated Science, Biology and Chemistry for the College Preparatory Diploma, Integrated Science, Biology, Chemistry and one upper level Science course which is four credits for the Academic Diploma	27	Yes		Letter of Assurance and School Web Site

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Warren County	5	Pre-Algebra/Algebra I, II, Geometry, Pre-Calculus, Calculus, Data and Measurement		4	Integrated Science with Earth/Space Applications, Biology I, Chemistry I with Earth Applications, Physical Science, Physics I with Space Applications	26	No		Letter of Assurance and School Web Site
Washington County		Minimum High School graduation requirements				22	Yes		Letter of Assurance
Wayne County	4	Algebra I, Geometry, and two Electives		3	ICP, Biology I or Chemistry I, one Elective	22	Yes		Letter of Assurance
Webster County	3	Algebra I, Geometry, Math Elective (Pre-Calculus and AP, Computer Programming, Advanced Computer Programming, AP Computer Science)		3	Integrated Science, Biology, Science Elective (Earth/Space Science, Chemistry I, II, Physics, AgiScience)	27	Yes		Letter of Assurance
Whitley County	3	Algebra I, II, Pre-Algebra, Integrated Math I, II, III, Geometry, Pre-Calculus, AP Calculus, Applied Math, Functional Math I-IV	1/2 credit of Math must be taken during grade 12 in either AP Calculus, Pre-Calculus, Advanced Topics, or Applied Math	3	Integrated Chemistry and Physics, Earth Science, Biology, AP Biology, Chemistry I, II, AP Chemistry, Anatomy and Physiology, Physics, AP Physics	22	Yes	Three AP exams, four AP classes (AP English, AP Foreign Language, AP Math, or Science) and an Elective AP course	Letter of Assurance
Williamsburg Independent	3			3		22	No		Phone Call
Williamstown Independent	3	Algebra I, Geometry, Algebra II, Consumer Math, Pre-Calculus, Probability and Statistics		3	Physical Science, Chemistry I, Biology I, II, Anatomy and Physiology	22	Yes		Letter of Assurance and School Web Site
Wolfe County	4	Integrated Math I, II, III, Algebra I, Geometry, Algebra II		4	Integrated Science I, II, III, Integrated Chemistry/Physics, Earth/Space Science, Biology, Chemistry	27	Yes		Letter of Assurance

**Kentucky High School Graduation Requirements for Math and Science by District**

District	Number of Credits in Math	Specific Courses	Year Regulations	Number of Credits in Science	Specific Courses	Total Number of Credits for Diploma	Commonwealth Diploma	Additional Diplomas and Required Courses	Source of Information
Woodford County	4	Algebra I, Geometry, and two Electives required from Informal Geometry, Consumer Math, Pre-Algebra, Basic Algebra, Algebra II, Advanced Geometry, Advanced Algebra II, Advanced Math Topics, Pre-Calculus, Calculus, Differential Calculus, AP Calculus, Topics in Mathematics		3	Integrated Science I, II, Biology	26	Yes		Letter of Assurance